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Spatial regularities in the effect of locking of photon echo signals and associative optical memory

Nefed'ev L., Khakimzyanova G.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The efficiency of suppression of the generation of a photon echo response depending on the mutual spatial orientation of gradients of external nonuniform electric fields acting on a resonant medium is studied. The possibility of creating an associative memory where the mutual orientation of the gradients of external electric fields is an associative key is discussed.

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